1: Petrullo E-3 (1933-34) 1939 SS19 Yaruro SS19

iron hoe, which is also made by the Yaruro out of any heavy scrap of iron that they may gather. Sometimes they will work for the ranchers and with their earnings purchase this type of hoe from a trader. However, such a digging tool is quite a luxury and sharpened sticks are more common.

MORTARS AND PESTLES.—During the rainy season, the Yaruros gather chigua, a seed, which they dry and pound into flour. Mortars of wood shaped as shown in figure 20, *a*, *b*, are used and the pestle is any ordinary hard stick.

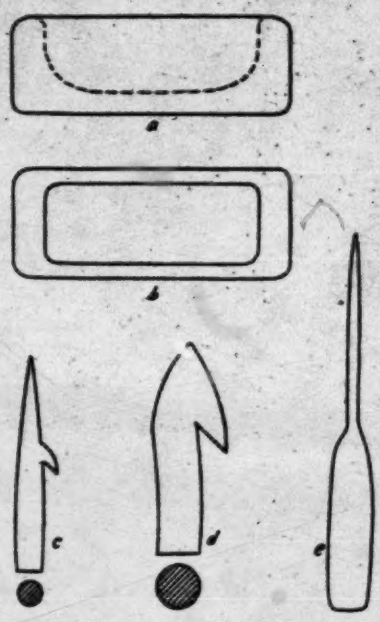

FIGURE 20.—*a*, *b*, Wooden mortar. *c*, Bone or iron point used for hunting chiguire. *d*, Hook used for manatee. *e*, Cooking paddle.

COOKING LADLES.—These are small wooden paddles used in cooking, especially when meat is boiling in a pot (fig. 20, *e*).

HAMMOCKS.—The Yaruros prefer to sleep on the sands, especially during the dry season. The men make hammocks, however, small ones generally used by children as cradles, and by the women shamans when they sing, during the day. During the rainy season they may employ them for sleeping.

The fiber employed to make the hammock string comes from the moriche leaf. The string may be very fine, of course, depending on the interest of the maker. It is made by the men. To weave the hammock a loom is made of two poles thrust into the sand to which are fastened two crosspieces at both the top and bottom. The string is then wound around these crosspieces. The weaver employs a knotter's netting technique. When the entire hammock has been woven the weaving is held in place by another string thrust through one of the woven rows.

ROPE.—The fiber mostly employed by the Yaruros is taken from the leaf of the moriche and the macanilla. The inner cortex of the leaf is stripped off and dried and then is taken apart strand by strand. These long fibers are then moistened and twisted together in two's and th..e's into a string by rolling them on the thigh with the palm of the hand. A stronger string is made in the same way and used for making hammocks. The bow strings are made from the fiber of the macanilla.

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BASKETRY.—The Yaruros make two types of baskets, a coarse kind which is used once or twice and then discarded, and finely woven pouches which are carried by the hunters. The coarse basketry is

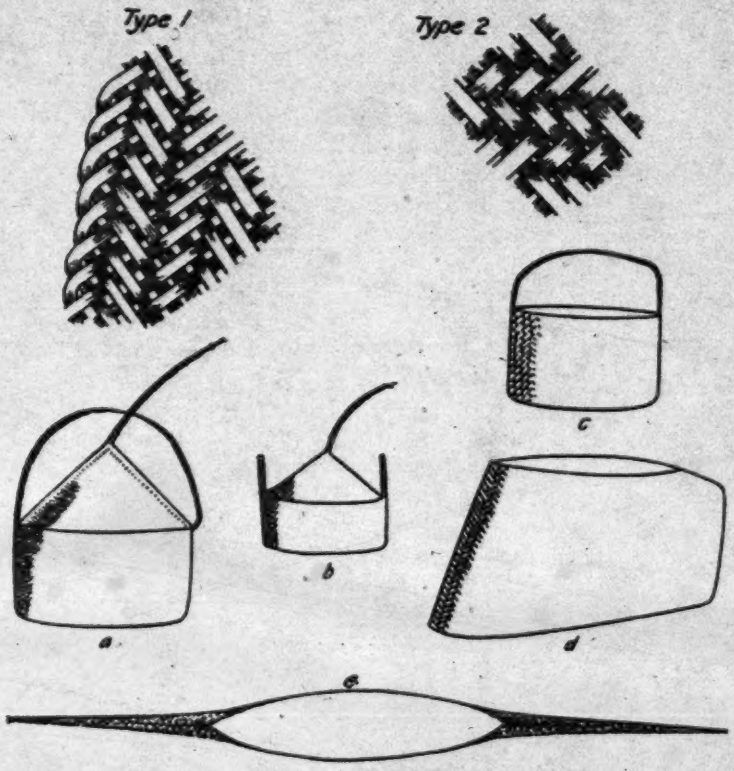

FIGURE 21.—Basketry. Type 1 and Type 2, weaves employed by the Yaruros. *a*, *b*, Pouches with flaps (Type 2 weave). *c*, *d*, Small baskets (Type 2 weave). *e*, Another type of basket used around camp (Type 2 weave generally). Only two weaves are employed by the Yaruros, both of which are shown (Type 1, Type 2). Baskets are used to carry food and to store objects. The coarser baskets, woven quickly and discarded after a few days, are woven as Type 1. The finer basketry, especially the pouches, are woven according to Type 2 technique.

often woven from one leaf. The finer type involves a more complex process. The outer cortex of the moriche leaves are stripped off and only the inner cortex, torn in narrow strips, is used. The techniques employed are fairly simple, as shown in figure 21.

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FIRE STICKS.—The apparatus used for producing fire among the Yaruros is very simple, consisting of merely two sticks of laurel wood which is found in great abundance along the banks of the rivers. One stick is notched about the middle. This stick is placed on the ground and held in place with the foot, while the other stick, fitted into the notch, is twirled rapidly between the palms of the hands.

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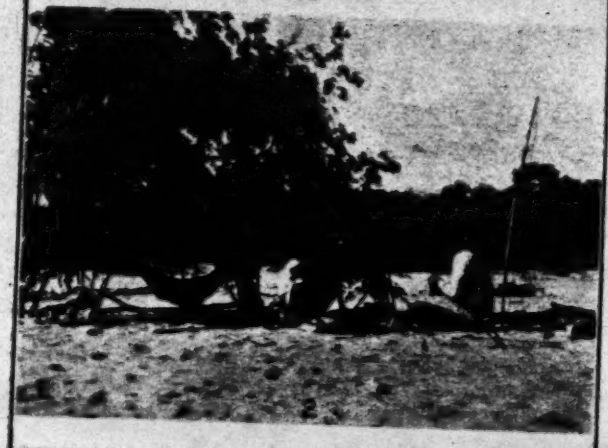

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1. Branches thrust into the sands form Yaruro shelter against sun and wind. All the possessions of this family, with the exception of bow and arrows which the hunter has taken with him, are scattered on the ground. They consist of an iron pot, a piece of cloth, several baskets, a hammock, and a water jar. 2. Yaruros prefer to sleep half buried in the sands, both for warmth and protection from insects. During the day young children are put to sleep in hammocks. 3. During the rainy season, or when a site is occupied for more than several days, the Yaruros may build structures such as the one shown in this picture.

[End Plate 4]

222 the moriche palm (*Mauritia flexuosa*); several seeds, notably chiga (= chigo?; — *Campsiandra comosa*); calabashes (*Crescentia Cujete*), and bees' wax and honey. Non of the items gathered are large in size or difficult of access except the bees' wax, one or two of the fruits, and calabashes which grow on higher trees, or may be very far. Gathered foods may be picked up by hand or with the aid of a digging [412] stick or machete, and may be brought back in the harvesting baskets. Other items [415] which may be gathered include the raw materials for baskets and mat-making or 824 for food-processing tools such as the tipití, pots, or mortars and pestels. These [285] items include the fronds of the moriche palm, used for making cord, baskets, tipi- [323] tís, mats, and sacks; in some villages, clay for pots; reeds for arrows, wood for house beams, mortars and pestles, bows, and for cooking utensils. Wood, palm fronds, and many other items are gathered with the help of the all-purpose machete.

231 Pig herding is unsystematically done. The pigs, a recent acquisition, spend most of their time at will in the foraging grounds. The significant herding activity occurs only at times when one or another of the groups of pigs breaks into the gardens, an almost daily occurrence. They are then driven to the foraging grounds again, or if late in the day, into a close till morning when they are either driven forth again or allowed to scavenge in the village. There are several herds of pigs of sizes varying from perhaps a maximum of 20 including piglets to the more usual six or eight animals. The only tools used in pig care include a slaughtering [412] stick with which the pig is clubbed to death and knives to cut up the meat. The [262] close is built of logs cut with a machete and carried in by one or two men. Pig meat, though eaten with regularity, is definitely a secondary element of diet.

411 Hunting is done almost exclusively with the bow and arrow. There are several types of arrows. One for fish has a metal point approximately 4 inches long with a side hook about five inches from the tip, where the tip is set into the shaft. This may also be used for smaller animals. One for birds has a blunt wooden head, and does not appear to be used very often. A third type is used for larger animals such as deer and capybara. It has a blade about 6 inches long shaped like a laurel leaf and, at present, made of steel. At the base of the blade, a small cross-piece is affixed in order to prevent the precious blade from piercing so deeply into the animal that, if it escapes, it would carry the arrow away with it. The fourth type of arrow is used for turtles, tortoises, and alligators or other animals which submerge. The head is short and strong with a sharp recurved hook. The entire metal head is attached to a cord, and this in turn is attached to the arrow shaft, from which the head is detachable. On detaching, the shaft floats and the game can be followed in its underwater course. The bow is generally about 6 feet long or a little more. It is made rather crudely of the wood of the macanilla palm (*Bactris Gaspiaes*). Some animals, especially land tortoises and armadillos, may be caught [136] by hand. Alligators may also be hunted with exceedingly heavy steel hooks and [324] a strong line. In hunting, no traps, nets, surrounds, or drives are used.

226 Fishing is done chiefly with bows and arrows, though an arrow may sometimes be used as a spear, repeatedly jabbed into grassy waters near the river banks. Fishing may also be done with hooks and lines of different sizes. Bait is also used. A man may fish from a platform built by lashing logs horizontally to two trees